

HXD Series

- High reliability and high voltage are realized by hybrid electrolyte
- Bias humidity : 85°C , 85%RH for 2,000hours
- Endurance with ripple current : 10,000 hours at 105°C
- Rated voltage range : 80V_{dc}, Capacitance range : 56μF
- For high temperature and high reliability applications.
(Power supply for server, power supply for communication equipment, etc.)
- RoHS Compliant.
- Halogen Free.



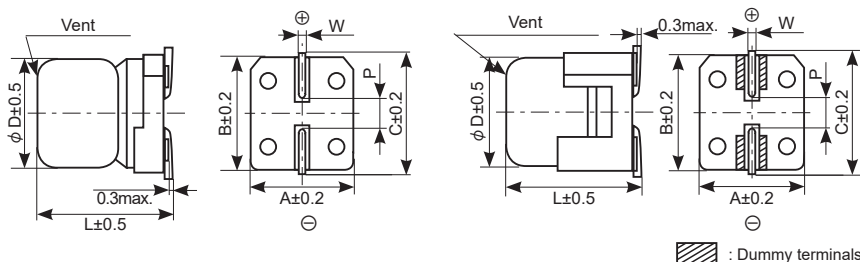
◆ SPECIFICATIONS

Items	Characteristics	
Category	-55 to +105°C	
Temperature Range	-55 to +105°C	
Rated Voltage Range	80V _{dc}	
Capacitance Tolerance	±20% (M) (at 20°C , 120Hz)	
Leakage Current	I=0.01CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)	
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	80V
	tan δ (Max.)	0.08 (at 20°C , 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C) / Z(+20°C) ≤ 1.5 Z(-55°C) / Z(+20°C) ≤ 2.0 (at 100kHz)	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 10,000 hours at 105°C .	
	Capacitance change	≤ ±30% of the initial value
	D.F. (tan δ)	≤ 200% of the initial specified value
	ESR	≤ 200% of the initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.	
	Capacitance change	≤ ±30% of the initial value
	D.F. (tan δ)	≤ 200% of the initial specified value
	ESR	≤ 200% of the initial specified value
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to the DC rated voltage at 85°C , 85% RH for 2,000 hours.	
	Appearance	No significant damage
	Capacitance change	≤ ±30% of the initial value
	D.F. (tan δ)	≤ 200% of the initial specified value
	ESR	≤ 200% of the initial specified value
	Leakage current	≤ The initial specified value

◆ DIMENSIONS [mm]

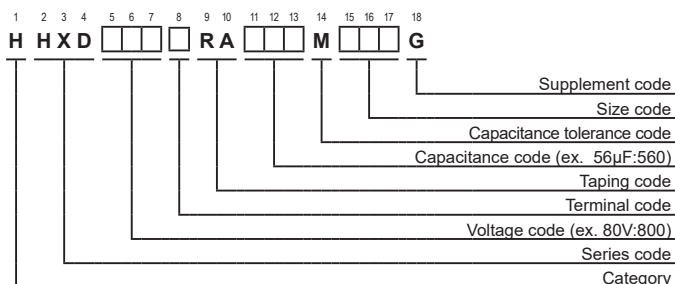
● Terminal Code : A

● Terminal Code : G(Vibration resistant structure)



Size Code	φD	L	A	B	C	W	P
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5

◆ PART NUMBERING SYSTEM



◆ MARKING

EX) 80V56μF



● Rated voltage symbol

Rated voltage (V _{dc})	Symbol
80	K

Please contact us for mass production schedule. Specifications in this bulletin are subject to change without notice.

HXD Series

◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size code	ESR (mΩ max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Part No.
80	56	JA0	33	2,400	HHXD800 □ RA560MJA0G

◆ RECOMMENDED REFLOW SOLDERING CONDITIONS

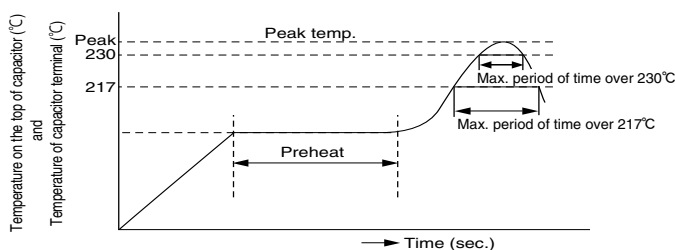
The following conditions are recommended for air convection and infrared reflow soldering on the SMD products on to a glass epoxy circuit boards by cream solder. The dimensions of the glass epoxy boards with resist are 90×50×0.8mm.

The temperatures shown are the surface temperature values on the top of the can and on the capacitor terminals.

Reflow should be performed twice or less.

Please ensure that the capacitor became cold enough to the room temperature (5 to 35°C) before the second reflow.

● Reflow Profile



Size Code	Preheat	Time maintained above 217°C	Time maintained above 230°C	Peak temp.	Reflow number
JA0	150 to 180°C	50 sec. max.	40 sec. max.	260°C max.	1-cycle only
	120 sec. max			245°C max.	2-cycle allowed

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